

## Abstract

The invention relates to a method for ascertaining the pole wheel position in electrical machines (1), for example rotary current generators with pulse inverters. These  
5 electrical machines have a rotor excitation device (2) and a stator (4) provided with inductances (4.1, 4.2, 4.3 or 20, 21, 22). An alternating voltage source (7) is provided on the stator output side, between two stationary terminals (5). By means of first and second switch elements (15, 16), a split into two branches (13 and 14) can be produced, in which the respective branch voltage curves (17, 18) are measured, the superposition of which  
10 permits the rotor or pole wheel position (11) to be definitely ascertained.

(Fig. 4)